

TAMZEED QUAZI

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Skills

Languages: Java, Python, JavaScript, TypeScript, C++, C, SQL

Full-Stack Development: React, React Native, Next.js, Node.js, Express.js, Flask

Databases & Cloud: PostgreSQL, Firebase, AWS, Azure Cloud

DevOps & Testing: Git, Docker, Linux, CI/CD, Postman, JUnit, Mocha, Chai

Experience

Software Developer Co-op

Jan 2023 – Aug 2023

Tetra Tech

Vancouver, British Columbia

- Implemented a full-stack alert system using **Python** and **Next.js**, enabling real-time monitoring of geo-hazards and receiving continuous positive feedback from geo-engineering users
- Designed and built RESTful APIs with **Flask** to handle complex GIS file and data operations and distribution
- Developed an automated file synchronization system between **Azure** services using **React** and **Python**, reducing manual work by 45 minutes daily
- Optimized **PostgreSQL** database performance by implementing PostGIS, resulting in 30% faster query times
- Led deployment and scaling of a web application to 1000+ users using **Azure Linux** VM and **Azure BlobFuse**
- Architected and implemented a data processing pipeline for an AI model reducing preprocessing times by 90%

Club Experience

Strategy Software Developer

Sep 2023 – Present

UBC Solar (Design Team)

Vancouver, British Columbia

- Engineered race strategy optimization algorithms that contributed to the team's highest-ever 6th place finish at the Formula Sun Grand Prix 2024
- Built cross-platform desktop application using **Electron** and **React** for race data and simulation visualization
- Built analysis tools in **Python** to process telemetry data from **PostgreSQL** for real-time strategy optimization

Projects

Breathe App (Hackathon) | *React, TypeScript, Python, Flask, C++* 🔒

- Built full-stack application with **React** frontend and **Flask** backend, integrating real-time sensor data
- Implemented websocket communication between **C++** sensor interface and **Python** backend
- Integrated ChatGPT API for intelligent analysis of environmental data

PacePal | *C++, Python, Firebase, IoT* 🔒

- Developed an IoT pace tracker using **C++** for embedded systems and **Firebase** for real-time data storage
- Created **Python** analysis tools for **Firebase** API integration and data visualization

Hoppon Bot | *Python, AWS EC2, Docker* 🔒

- Engineered Discord bot with **Python**, containerized with **Docker** and deployed on **AWS EC2**
- Implemented music streaming functionality using Spotify and YouTube APIs with intelligent queue system
- Designed architecture supporting 30+ concurrent users with minimal latency

Health Logger | *Java, JUnit* 🔒

- Developed **Java** application following OOP principles with comprehensive **JUnit** test coverage
- Implemented robust architecture documented with UML diagrams following SOLID principles

Education

University of British Columbia

Sep 2021 - Apr 2026

BSc. Combined Major in Computer Science and Statistics